BRUHATH BANGALORE MAHANAGARA PALIKE
EXECUTIVE ENGINEER, YELAHANKA DIVISION

Name of Work: Improvements and Development of Roads and Drains in Ward No.2 Chowdeshwari Ward, Yelahanka Sub Division.

DETAILED ESTIMATE

Estimated Cost= 9900000.00

Sl No	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
1	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (KPWD SR 2018-19, Page No.143, Item No.19.1)								
		Cum							
	Rate Analysis								
	Basic Rate	130.00							
	Area Weightage @6%	7.80							
	Lead of 8Km (8x1.28x2)+57	77.48							
	Total Amount	**215.28**							
	New RCC Drain								
	ISRO Layout								
	11th A Main Rd		1	57.00	1.10	1.10	68.97		
	4th Cross Rd		1	58.00	1.10	1.00	63.80		
	11th Main Rd		2	188.00	1.10	1.05	434.28		
	Village Rd		1	120.00	1.10	1.00	132.00		
	14th Main Rd		1	122.00	1.10	1.05	140.91		
	9th Main Rd		1	128.00	1.10	1.05	147.38		
	6th Main Rd		1	52.00	1.10	1.10	62.92		
	New Culvert								
			10	8.60	1.50	1.10	141.90		
						Total Quantity	**1192.16**	**215.28**	**256647.13**
2	KSRB 4-1.2 : Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2 (KPWD SR 2018-19, Page No.13, Item No.4.2)								
		Cum							
	Rate Analysis								
	Basic Rate	5194.00							
	Area Weightage @6%	311.64							
	Total Amount	**5505.64**							
	New RCC Drain								
	ISRO Layout								
	11th A Main Rd		1	57.00	1.10	0.15	9.41		
	4th Cross Rd		1	58.00	1.10	0.15	9.57		
	11th Main Rd		2	188.00	1.10	0.15	62.04		
	Village Rd		1	120.00	1.10	0.15	19.80		
	14th Main Rd		1	122.00	1.10	0.15	20.13		
	9th Main Rd		1	128.00	1.10	0.15	21.12		
	6th Main Rd		1	52.00	1.10	0.15	8.58		
	New Culvert								
			10	8.60	1.50	0.15	19.35		
	Concrete Road								
	Water filter Rd								
	11th A Main Rd		1	97.00	3.95	0.15	57.47		
						Total Quantity	**227.47**	**5505.64**	**1252354.17**

3	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. With 20mm and sown size granite metal course aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compcted for walls and bottom including centring shuttering cost of material HOM of machinary curing etc., complete execluding cost of steel as per MORTH specification no. 1500, 1700, 2200 including cost of material labour HOM complete as per specification. (P.No.271, I.No.37.59.2 of PW, P&IWTD S.R 2018-19)								
		Cum							
	Rate Analysis								
	Basic Rate	6670.00							
	Area Weightage @6%	400.20							
	Total Amount	**7070.20**							
	Raft								
	ISRO Layout								
	11th A Main Rd		1	57.00	0.90	0.15	7.70		
	4th Cross Rd		1	58.00	0.90	0.15	7.83		
	11th Main Rd		2	188.00	0.90	0.15	50.76		
	Village Rd		1	120.00	0.90	0.15	16.20		
	14th Main Rd		1	122.00	0.90	0.15	16.47		
	9th Main Rd		1	128.00	0.90	0.15	17.28		
	6th Main Rd		1	52.00	0.90	0.15	7.02		
	Wall								
	ISRO Layout								
	11th A Main Rd		2	57.00	0.15	0.60	10.26		
	4th Cross Rd		2	58.00	0.15	0.60	10.44		
	11th Main Rd		4	188.00	0.15	0.60	67.68		
	Village Rd		2	120.00	0.15	0.60	21.60		
	14th Main Rd		2	122.00	0.15	0.60	21.96		
	9th Main Rd		2	128.00	0.15	0.60	23.04		
	6th Main Rd		2	52.00	0.15	0.60	9.36		
	New Culvert								
	Raft		10	8.60	1.30	0.23	25.71		
	Wall		20	8.60	0.23	0.60	23.74		
	Ramp		10	8.60	3.00	0.075	19.35		
						Total Quantity	356.40	7070.20	2519783.93
4	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specifications. Specification No. KBS 4.6.3 - do - TMT bars Fe 500 (KPWD SR 2018-19, Page No.18, Item No.4.46.2)								
		Tonne							
	Rate Analysis								
	Basic Rate	70966.00							
	Area Weightage @6%	4257.96							
	Total Amount	**75223.96**							
	Considering 60Kgs for Drain per Cum		1	287.60		0.060	17.26		
	Considering 90Kgs for Drain per Cum		1	49.45		0.090	4.45		
						Total Quantity	21.71	75223.96	1632826.32
5	Providing precast slab of 100 mm thick including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge Data Rate								
		Sqm							
	Data Rate								
	Basic Rate	**2337.00**							

	Area Weightage @6%								
	Total Amount	2337.00							
	ISRO Layout								
	11th A Main Rd		1	57.00	0.90		51.30		
	4th Cross Rd		1	58.00	0.90		52.20		
	11th Main Rd		2	188.00	0.90		338.40		
	Village Rd		1	120.00	0.90		108.00		
	14th Main Rd		1	122.00	0.90		109.80		
	9th Main Rd		1	128.00	0.90		115.20		
	6th Main Rd		1	52.00	0.90		46.80		
						Total Quantity	**821.70**	**2337.00**	**1920312.90**
6	Providing precast slab of 250 mm thick including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge Data Rate								
		Sqm							
	Data Rate								
	Basic Rate	5418.00							
	Area Weightage @6%								
	Total Amount	**5418.00**							
	New Culvert								
			10	8.60	1.20		103.20		
						Total Quantity	**103.20**	**5418.00**	**559137.60**
7	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. Loading and unloading with 8km lead= (I No-18.47,P No-140,KPWD SR 2018-19)								
		Cum							
	Rate Analysis								
	Basic Rate	899.00							
	Area Weightage @6%	53.94							
	Lead of 8Km (8x1.28x2)	20.48							
	Total Amount	**973.42**							
	Concrete Road								
	Water filter Rd								
	11th A Main Rd		1	97.00	3.95	0.25	95.79		
						Total Quantity	**95.79**	**973.42**	**93241.47**
8	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound.(P.No-176,I No-22.6.1)								
		Cum							
	Rate Analysis								
	Basic Rate	4916.00							
	Area Weightage @6%	294.96							
	Total Amount	**5210.96**							
	Concrete Road								
	Water filter Rd								
	11th A Main Rd		1	97.00	3.95	0.15	57.47		
							Total Quantity	**57.47**	**5210.96**	**299486.90**
								Construction Total Amount	**8533790.00**
								Add GST Charges 12%	**1024055.00**
								Add KRIDL Charges 4%	**341352.00**

	Description of work	Unit	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
								Sub Total	9899197.00
								Miscellaneous and unforeseen charges etc.L.S	803.00
								Grand Total	9900000.00

Certificate:

1. The work spot has been inspected and found to be necessary
2. The work spot comes under BBMP Limits
3. The provisions made in the estimate are necessary and minimum
4. The estimate is based on CSR of 2018-19

For Qualiex Civil Design & Consultancy

Assistant Engineer
Ward No.02, Cowdeshawari Nagara
BBMP

Assistant Executive Engineer
Yelahanka Sub Division
BBMP
Yelahanka, Bangalore

Executive Engineer
Yelahanka Division
BBMP

Administrative Sanction for Rs. 99.00 Lakhs
(Ninety Nine Lakhs)
is accorded under head P-0190
Registered as CE No. ..... Subject to conditions contained in enclosed memo No. EE/YNK/AS/12/2019-20 Dt. 19-8-19

Executive Engineer

Technical Sanction
Accorded For BSSRoadworks
Head of A/C P0190
CER NO : 58 Dt: 25.07.19

TA CE (YNK)

Name of Work: Improvements and development of Roads and Drains in Ward no-2 Chowdeshwari ward, Yelahanka sub Division.